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27624 7590 11/06/2009 AKZO NOBEL INC.			EXAMINER	
LEGAL & IP	-	WILKINS III, HARRY D		
TARRYTOWN	LAINS ROAD, SUITE I, NY 10591	O .	ART UNIT	PAPER NUMBER
			1795	
			NOTIFICATION DATE	DELIVERY MODE
			11/06/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)		
	10/608,152	BO ET AL.		
Office Action Summary	Examiner	Art Unit		
	Harry D. Wilkins, III	1795		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 30 S 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-12 and 23-26 is/are pending in the state 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12 and 23-26 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	wn from consideration.			
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 21 November 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 30 September 2009 has been entered.

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-6, 9-11, 23, 24 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Millet (US 5,104,499) in view of Oda et al (US 4,299,682).

Millet teaches (see abstract and col. 2, lines 28-45) a process for electrolytic production of alkali metal chlorate in an electrolytic cell divided by a cation selective separator into an anode compartment in which an anode is arranged and a cathode compartment. The process included the steps of introducing an anolyte solution containing alkali metal chloride into the anode compartment, electrolyzing the solution to produce alkali metal chlorate and producing alkali metal hydroxide in the cathode compartment. After being electrolyzed the solution was transferred to a reactor to produce a concentrated alkali metal chlorate electrolyte prior to ultimate crystallization of the alkali metal chlorate in the reactor.

With respect to the reactor being a chlorate reactor, the claims do not further limit the structure of the reactor and the reactor (crystallizer) of Millet was capable of produced a concentrated alkali metal chlorate electrolyte by evaporation of water from the electrolyte. Thus, the disclosure of Millet is deemed to meet the transferring step as claimed.

Thus, Millet fails to teach using a gas diffusion cathode in the cathode compartment and the step of feeding oxygen-containing gas into the cathode compartment.

Of importance is that the reaction at the cathode of Millet produces hydrogen gas and hydroxide ions from the water.

Oda et al teach (see abstract, figure 2, col. 1 and col. 4, line 30-col. 6, line 5) that in divided electrolytic cells for the electrolytic production of Cl₂ and NaOH, the operating voltage of the cell can be reduced by using a gas diffusion cathode, and feeding oxygen to the cathode through a gas chamber (9). The reaction at the cathode involves reaction of the oxygen gas with the water to form hydroxide ions without producing hydrogen gas.

Therefore, it would have been obvious to one of ordinary skill in the art to have used the gas diffusion cathode as taught by Oda et al in the divided electrolysis cell taught by Millet because of the decreased operating voltage which leads to an increased current efficiency.

It is noted that the overall cathode reaction provided by the process cell of Oda et al is similar to the cathode reaction provided by the process of Millet. Both cathodes

react an incoming NaOH catholyte to produce additional NaOH at the cathode.

Therefore, one of ordinary skill in the art would have had a reasonable expectation of successfully substituting the gas diffusion electrode of Oda et al into the cell of Millet, especially in view of the teachings of Oda et al that the gas diffusion electrode was designed to replace hydrogen evolving cathodes.

Regarding claim 2, Oda et al teach (as above, figure 2) that the gas diffusion electrode divided the cathode compartment into a gas chamber (9) on one side of the gas diffusion electrode and an alkali metal hydroxide chamber (7) on the other side thereof. An alkali metal solution was introduced to the alkali metal hydroxide chamber at 12 and an oxygen containing gas was introduced to the gas chamber at 14.

Regarding claim 3, Oda et al teach (as above) using a cation selective membrane.

Regarding claim 4, the analyte of Millet had a pH of 6.2 to 6.6.

Regarding claim 5, the analyte of Millet contained about 100-200 g/L of chloride.

Regarding claim 6, the anolyte of Millet contained about 400-600 g/L of an alkali metal chlorate.

Regarding claim 9, Millet teaches the desire to perform the electrolysis without any chromates present.

Regarding claims 10 and 24, Millet teaches (see example 1) using a catholyte of 20 wt% NaOH (~250 g/L). It would have been obvious to one of ordinary skill in the art to have optimized the amount of NaOH fed to the cathode compartment in order to

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balance the necessary cost of the NaOH against any increases in productivity produced by adding more NaOH.

Regarding claim 11, Millet teaches (see example 1) operation of the cell at 63°C.

Regarding claim 23, the cell of Oda et al included (see figure 2) a gas diffusion electrode (8) which divided the cathode compartment into a gas chamber (9) on one side of the gas diffusion electrode and an alkali metal hydroxide chamber (7) on the other side between the gas diffusion electrode and the cation selective separator. The process of Oda et al included (see Example 1) introducing a weak alkali metal hydroxide solution into the alkali metal hydroxide chamber and oxygen containing gas into the gas chamber. The cation selective separator was a membrane. Millet teaches (see abstract and col. 2) using a pH of the solution of 6.2-6.6.

Regarding claim 26, see above regarding claims 1, 4, 5, 6 and 10.

4. Claims 1, 3-6, 9-11 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Millet (US 5104,499) in view of Shimamune et al (US 6,117,286).

Millet teaches (see abstract and col. 2, lines 28-45) a process for electrolytic production of alkali metal chlorate in an electrolytic cell divided by a cation selective separator into an anode compartment in which an anode is arranged and a cathode compartment. The process included the steps of introducing an analyte solution containing alkali metal chloride into the anode compartment, electrolyzing the solution to produce alkali metal chlorate and producing alkali metal hydroxide in the cathode compartment. After being electrolyzed the solution was transferred to a reactor to

produce a concentrated alkali metal chlorate electrolyte prior to ultimate crystallization of the alkali metal chlorate in the reactor.

Thus, Millet fails to teach using a gas diffusion cathode in the cathode compartment and the step of feeding oxygen-containing gas into the cathode compartment.

Of importance is that the reaction at the cathode of Millet produces hydrogen gas and hydroxide ions from the water.

Shimamune et al teach (see abstract and cols. 1-3) that great savings in electricity can be realized by substituting a gas diffusion cathode for a regular hydrogen evolving cathode in a membrane electrolytic cell. Further, the cell in which the gas diffusion cathode is placed adjacent to the separator/membrane, i.e.-zero-gap, solves many problems associated with either the hydrogen evolving cathode or the three-chamber gas diffusion electrode cells.

Therefore, it would have been obvious to one of ordinary skill in the art to have substituted the gas diffusion cathode of Shimamune et al for the hydrogen evolving cathode of Millet because Shimamune et al teach that doing so can provide significant cost savings in terms of electricity consumed.

Regarding claim 3, both Millet and Shimamune et al teach using a cation selective membrane.

Regarding claim 4, the anolyte of Millet had a pH of 6.2 to 6.6.

Regarding claim 5, the anolyte of Millet contained about 100-200 g/L of chloride.

Regarding claim 6, the anolyte of Millet contained about 400-600 g/L of an alkali metal chlorate.

Regarding claim 9, Millet teaches the desire to perform the electrolysis without any chromates present.

Regarding claims 10 and 24, Millet teaches (see example 1) using a catholyte of 20 wt% NaOH (~250 g/L). It would have been obvious to one of ordinary skill in the art to have optimized the amount of NaOH fed to the cathode compartment in order to balance the necessary cost of the NaOH against any increases in productivity produced by adding more NaOH.

Regarding claim 11, Millet teaches (see example 1) operation of the cell at 63°C.

Regarding claim 25, Shimamune et al teach (see cols. 2-3) that arranging the gas diffusion cathode adjacent to the membrane permitted several problems with three-chamber gas diffusion electrode cells to be overcome.

Regarding claim 26, see above regarding claims 1, 4, 5, 6 and 10.

5. Claims 1-5, 7, 9-11 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cook, Jr. (US 3,897,320) in view of Oda et al (US 4,299,682).

Cook, Jr. teaches (see abstract, figure and col. 1, line 52 to col. 2, line 39) a process of making alkali metal chlorate including the steps of introducing an electrolyte solution containing alkali metal chloride into the anode compartment (27) of a divided electrolytic cell (11), electrolyzing the electrolyte solution to produce alkali metal chlorate in an electrolyzed solution in the anode compartment, forming alkali metal hydroxide in the cathode compartment (29), and transferring the electrolyzed solution

from the anode compartment to a chlorate reactor (35) to react the electrolyzed solution further to produce a concentrated alkali metal chlorate electrolyte.

Thus, Cook, Jr. do not teach using a gas diffusion cathode in the divided electrolytic cell and feeding oxygen gas to the gas diffusion cathode.

Oda et al teach (see abstract, figure 2, col. 1 and col. 4, line 30-col. 6, line 5) that in divided electrolytic cells for the electrolytic production of Cl₂ and NaOH, the operating voltage of the cell can be reduced by using a gas diffusion cathode, and feeding oxygen to the cathode through a gas chamber (9).

Therefore, it would have been obvious to one of ordinary skill in the art to have used the gas diffusion cathode as taught by Oda et al in the divided electrolysis cell taught by Cook, Jr. because of decreased operating voltage which leads to an increased current efficiency.

It is noted that the overall reaction provided by the process cell of Oda et al is identical to the reaction provided by the process of Cook, Jr. Both cells react an incoming NaCl anolyte and NaOH catholyte to produce Cl₂ gas at the anode and additional NaOH at the cathode. The Cl₂ of Cook, Jr. immediately dissolves into the solvent (water) to form HClO and HCl. Additionally, the membrane of Oda et al would have permitted a small amount of the hydroxide ions to cross, similarly to Cook, Jr, resulting in the formation of at least some chlorate ions in the anode chamber. Therefore, one of ordinary skill in the art would have had a reasonable expectation of successfully substituting the gas diffusion electrode of Oda et al into the cell of Cook, Jr.

Regarding claim 2, Oda et al teach (as above, figure 2) that the gas diffusion electrode divided the cathode compartment into a gas chamber (9) on one side of the gas diffusion electrode and an alkali metal hydroxide chamber (7) on the other side thereof. An alkali metal solution was introduced to the alkali metal hydroxide chamber at 12 and an oxygen containing gas was introduced to the gas chamber at 14.

Regarding claim 3, Oda et al teach (as above) using a cation selective membrane.

Regarding claim 4, Cook, Jr. teaches (see abstract and col. 3) using a pH of the solution of 2-6.

Regarding claim 5, Cook, Jr. teaches (see col. 3) a chloride concentration of 200-320 g/l.

Regarding claim 7, Cook, Jr. teaches (see col. 3) that the recycled electrolyte from the crystallizer (61) is not free of chlorate ions and that the chlorate was present at an amount smaller than the chloride in the recycled electrolyte which was 50-100 g/L. Thus, the recycled electrolyte, ultimately fed into the divided electrolytic cell after saturation with sodium chloride would have contained the claimed amount of chlorate ions.

Regarding claim 9, Cook, Jr. does not teach adding any chromate to the electrolyte.

Regarding claim 10, Cook, Jr teaches (see col. 7, lines 45-48) producing a sodium hydroxide concentration of 250-450 g/L.

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Regarding claim 11, Cook, Jr. teaches (see col. 7, lines 17-28) controlling the temperature of the electrolyte to be less than 105°C, most preferably in the range of 65 to 85°C.

Regarding claim 23, the cell of Oda et al included (see figure 2) a gas diffusion electrode (8) which divided the cathode compartment into a gas chamber (9) on one side of the gas diffusion electrode and an alkali metal hydroxide chamber (7) on the other side between the gas diffusion electrode and the cation selective separator. The process of Oda et al included (see Example 1) introducing a weak alkali metal hydroxide solution into the alkali metal hydroxide chamber and oxygen containing gas into the gas chamber. The cation selective separator was a membrane. Cook, Jr teaches (see abstract and col. 3) using a pH of the solution of 2-6.

6. Claims 1-6, 8, 10-12, 23 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wanngard (US 5,419,818) with evidence from Cook, Jr. (US 3,897,320) in view of Oda et al (US 4,299,682).

Wanngard teaches (see col. 1, lines 18-37, cols. 3-6) a process for producing alkali metal chlorate in a divided electrolytic cell (12) including electrolyzing the anolyte electrolyte solution and transferring the electrolyzed solution to a chlorate reactor (4 or 5). The cell (12) of Wanngard was preferably divided by a cationic selective membrane.

Wanngard teach that the electrolytic cell (12) is a divided electrolytic cell. In this process, the anolyte fed to the cell included NaCl and the catholyte included NaOH. The anolyte was electrolyzed to generate Cl₂ gas at the anode and the catholyte was electrolyzed to generate NaOH at the cathode. The Cl₂ was immediately hydrolyzed

into HCIO and HCI (Wanngard at col. 3, lines 59-68). The HCIO is then reacted in the chlorate reactor to form sodium chlorate (NaClO₃).

Wanngard fails to teach the production of any chlorate within the divided electrolytic cell. However, it was known to one of ordinary skill in the art that any hydroxide ions crossing the membrane in a divided electrolytic cell would react with the hypochlorite ions (CIO⁻) to cause formation of chlorate ions (CIO⁻³). Evidence of this knowledge can be seen in Cook, Jr. at col. 2, lines 5-26, which states that cation-active permselective membranes allow some hydroxyl ions to migrate through from catholyte to anolyte. The hydroxyl ions then react in the anolyte to produce chlorate. Thus, in the process of Wanngard, at least some chlorate ions were produced in the anode compartment of the divided electrolytic cell.

Thus, Wanngard fails to teach the claimed cell which had a gas diffusion cathode and feeding oxygen to the gas diffusion cathode.

Oda et al teach (see abstract, figure 2, col. 1 and col. 4, line 30-col. 6, line 5) that in divided electrolytic cells for the electrolytic production of Cl₂ and NaOH, the operating voltage of the cell can be reduced by using a gas diffusion cathode, and feeding oxygen to the cathode through a gas chamber 9.

Therefore, it would have been obvious to one of ordinary skill in the art to have used the gas diffusion cathode as taught by Oda et al in the divided electrolysis cell taught by Wanngard because of decreased operating voltage which lead to an increased current efficiency.

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It is noted that the overall reaction provided by the process cell of Oda et al is identical to the reaction provided by the process of Wanngard. Both cells react an incoming NaCl anolyte and NaOH catholyte to produce Cl₂ gas at the anode and additional NaOH at the cathode. The Cl₂ of Wanngard immediately dissolves into the solvent (water) to form HClO and HCl. Additionally, the membranes of Wanngard and Oda et al would have permitted a small amount of the hydroxide ions to cross, similarly to Cook, Jr, resulting in the formation of at least some chlorate ions in the anode chamber. Therefore, one of ordinary skill in the art would have had a reasonable expectation of successfully substituting the gas diffusion electrode of Oda et al into the cell of Wanngard.

Regarding claim 2, Oda et al teach (as above, figure 2) that the gas diffusion electrode divided the cathode compartment into a gas chamber (9) on one side of the gas diffusion electrode and an alkali metal hydroxide chamber (7) on the other side thereof. An alkali metal solution was introduced to the alkali metal hydroxide chamber at 12 and an oxygen containing gas was introduced to the gas chamber at 14.

Regarding claim 3, Oda et al teach (as above) using a cation selective membrane.

Regarding claims 4-6 and 11, Wanngard teaches (see col. 6) using a pH of the solution of 5.5-6.5, a chloride concentration of 100-140 g/l, a chlorate concentration of 500-650 g/l and a temperature of 50-100°C.

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Regarding claim 8, Wanngard teaches (see col. 7, lines 5-8) using a minor addition of sodium chromate. It would have been obvious to one of ordinary skill in the art to have optimized the amount of chromate used.

Regarding claim 10, Wanngard does not disclose a concentration of sodium hydroxide in the catholyte. However, it would have been obvious to one of ordinary skill in the art to have optimized the concentration of the hydroxide being produced in the electrolyzer in order to achieve proper reaction rate.

Regarding claim 12, Wanngard teaches feeding both the electrolyzed anolyte and the electrolyzed catholyte to the chlorate reactor (4).

Regarding claim 23, the cell of Oda et al included (see figure 2) a gas diffusion electrode (8) which divided the cathode compartment into a gas chamber (9) on one side of the gas diffusion electrode and an alkali metal hydroxide chamber (7) on the other side between the gas diffusion electrode and the cation selective separator. The process of Oda et al included (see Example 1) introducing a weak alkali metal hydroxide solution into the alkali metal hydroxide chamber and oxygen containing gas into the gas chamber. The cation selective separator was a membrane. Wanngard teaches (see cols. 3-4) using a pH of the solution of 5.0-7.5.

Regarding claim 26, see above regarding claims 1, 4, 5, 6 and 10.

Response to Arguments

- 7. Applicant's arguments filed 30 September 2009 have been fully considered but they are not persuasive. Applicant has argued that:
 - Millet fails to teach a chlorate reactor.

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In response, nothing in Applicant's claim further defines the structure of the chlorate reactor beyond its function "to react the electrolysed solution further to produce a concentrated alkali metal chlorate electrolyte". The crystallization reactor of Millet reacts the solution to produce a concentrated alkali metal chlorate prior to ultimate crystallization by evaporation of the water.

b. Millet teaches away from the combination with Oda or Shimamune because Millet teaches that production of hydrogen gas ensure proper agitation of the catholyte and also the desire to not have a special electrode.

In response, there is more than sufficient advantage that is taught by Oda and Shimamune to substitute the gas diffusion electrode for the basic hydrogen evolving cathode of Millet. Both Oda and Shimamune teach reduction of the necessary voltage required for the cathode reaction by using the gas diffusion electrode fed with oxygen gas. The economic benefit of overall reduced electric energy consumption for the electrolysis reaction would be able to offset any additional agitation or electrode additions. Further, the agitation of the electrolyte was known to one of ordinary skill in the art to be implemented by means other than hydrogen production at the cathode.

c. The contention that the cathode reaction of Oda and Millet was identical is wrong.

In response, the examiner agrees, and has adjusted the rejection grounds accordingly.

d. Cook does not teach transferring the electrolyzed solution to a chlorate reactor.

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In response, nothing in Applicant's claim limits the structure or scope of the chlorate reactor beyond the function of increasing the concentration of the chlorate.

Thus, the electrolyzer of Cook is deemed to fall within the claim scope.

e. There is no reason to combine Cook with Oda.

In response, as set forth above, substitution of the gas diffusion cathode results in savings in terms of the electric energy required to drive the electrolytic reaction at the cathode, thereby providing a large incentive as the cost of electricity is a major portion of the total operating costs for any electrolytic reaction.

f. Wanngard does not produce chlorate in a divided electrolytic cell.

In response, as noted in the rejection grounds above, it was known to one of ordinary skill in the art that any hydroxide ions crossing the membrane in a divided electrolytic cell would react with the hypochlorite ions (CIO⁻) to cause formation of chlorate ions (CIO⁻³). Evidence of this knowledge can be seen in Cook, Jr. at col. 2, lines 5-26, which states that cation-active permselective membranes allow some hydroxyl ions to migrate through from catholyte to anolyte. The hydroxyl ions then react in the anolyte to produce chlorate. Thus, in the process of Wanngard, at least some chlorate ions were produced in the anode compartment of the divided electrolytic cell (12).

g. A skilled person would have no reason to modify the teaching of Wanngard in such a way that the instant process is arrived at since Wanngard is not aiming at providing a divided chlorate cell, particularly not a divided chlorate cell equipped with a gas diffusion electrode.

In response, as previously set forth by the examiner, and reiterated above, Wanngard, with evidence from Cook, Jr produces at least some chlorate ions in the divided electrolytic cell (12). Thus, although it may not have been the ultimate desire of Wanngard, none the less, the individual reaction steps occur within the process of Wanngard. Further, Oda provides significant motivation to replace a hydrogen evolving cathode with a gas diffusion cathode fed with oxygen gas resulting in significant electrical energy savings at the cathode.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry D. Wilkins, III whose telephone number is 571-272-1251. The examiner can normally be reached on M-F 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jenni Michener can be reached on 571-272-1424. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Harry D Wilkins, III/ Primary Examiner, Art Unit 1795